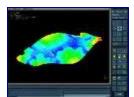
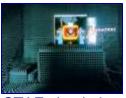


The integration of modeling and simulation into testing provides insights into trends and tendencies of weapon system performance that may otherwise be missed by classical testing. Live testing over a weapon system operational envelope is cost/time prohibitive. Validated models and simulations allow expansion of the testing capabilities for evaluation of weapon system performance over the full operational envelope. This technology extends to the collection, storage, and distribution of weapon test data for real-time interaction, performance analysis, and decision-making using the Simulation Test and Evaluation Process (STEP).



Home

Finite element analysis of a circuit card



STAF simulation chamber with missiles under



Longbow Hellfire HWIL testing

test







Sequencial view of virtual missile flight during HWIL tsting

Primary Services and Capabilities

- Testing and measurement to validate customer's models
- Real-time distributed testing across fiber optic networks
- System-level performance information from subsystem testing
- Integration of live and virtual components and environments
- Improving the actual test ("test the test")

Specialized Facilities, Equipment, and Tools

- Synthetic environments
- High-Performance Computer (HPC) Distributed Center
- High-bandwidth fiber network infrastructure
- Hardware-in-the-Loop (HWIL) facilities
- Human-in-the-Loop facilities
- Virtual Proving Ground (VPG) tools

Application of Assets to Customer's Needs

- Weapon system intraoperability and interoperability
- Controllable/repeatable testing environments for evaluation of alternative source selection
- Life-cycle performance and reliability verification

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